Maine Weekly Influenza Surveillance Report

April 30, 2019

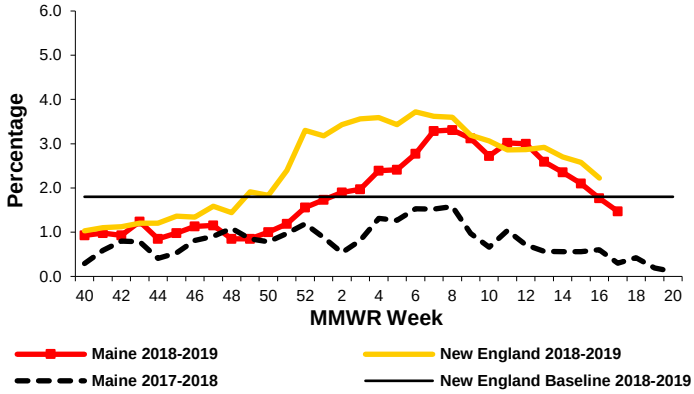
For MMWR week 17 (ending 04/27/2019)

Federal Flu Code: Regional

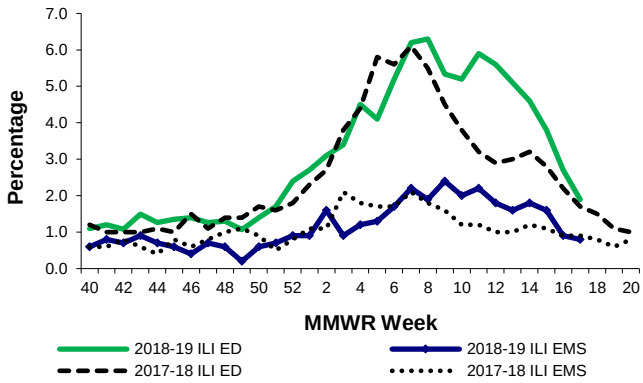
Surveillance Information – Maine, 2018-2019 Influenza Season

- Number of ILINet Providers reporting: 43
  - % of visits for Influenza-Like Illness (ILI): 1.47
- Syndromic Surveillance
  - % of Emergency Room visits for ILI: 1.9
  - % of Emergency Medical Services (EMS) runs for ILI: 0.8

Outpatient Visits for ILI – Maine, 2017-19



Syndromic Surveillance data for ILI – Maine, 2017 -19



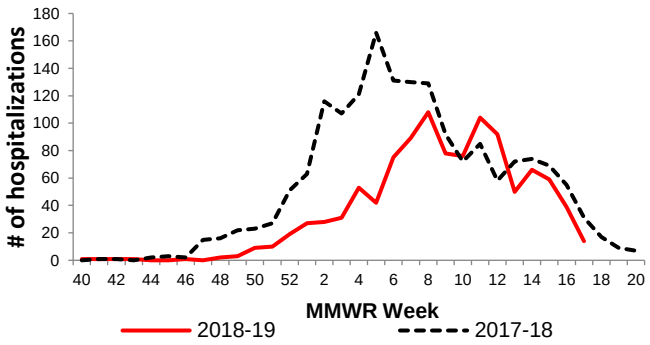
Influenza Hospitalizations

- # of hospitalizations: 14

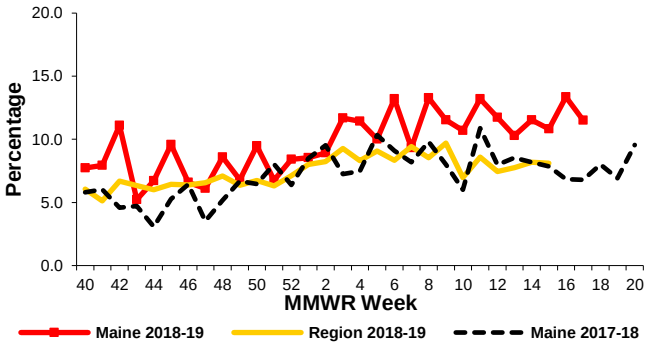
Pneumonia and Influenza (P&I) Deaths

- % of deaths due to P&I: 11.5
- # influenza deaths reported this week: 2
- Total influenza deaths this season: 48

Influenza Hospitalizations – Maine, 2017-19



Deaths Attributable to P&I – Maine, 2017-19



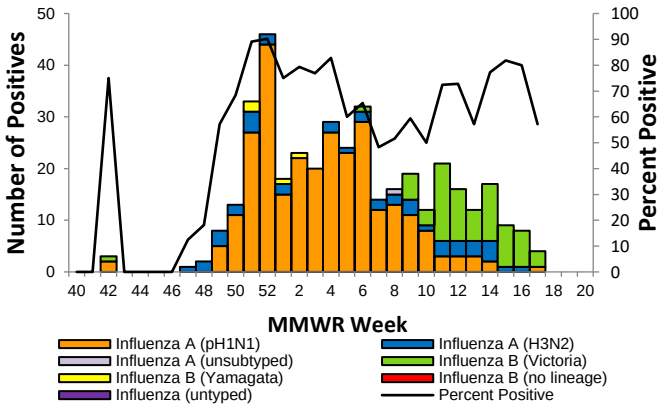
*This number represents the number of individuals who had influenza specifically listed on their death certificate. This is likely an underrepresentation of the true burden, as many influenza-associated deaths are due to secondary infections. This is why Maine CDC reports Pneumonia and Influenza (P&I) deaths.

All data is preliminary and subject to change

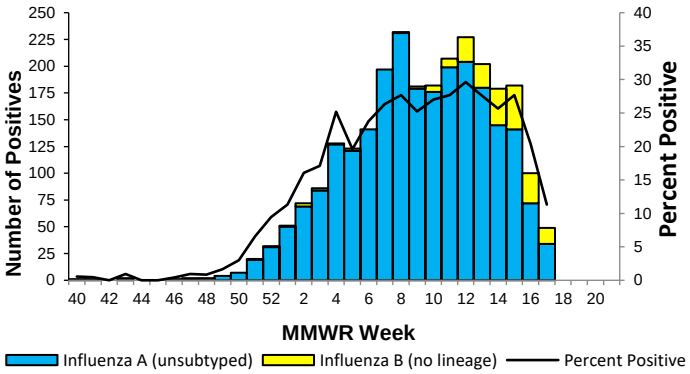
Lab Data – Maine, 2018-2019 Influenza Season

- # of samples tested at HETL: 7
  - # positive: 4
  - % positive: 57
- # of samples tested at Maine Reference Labs: 432
  - # positive: 49
  - % positive: 11.3
- # of samples positive by rapid antigen test: 67

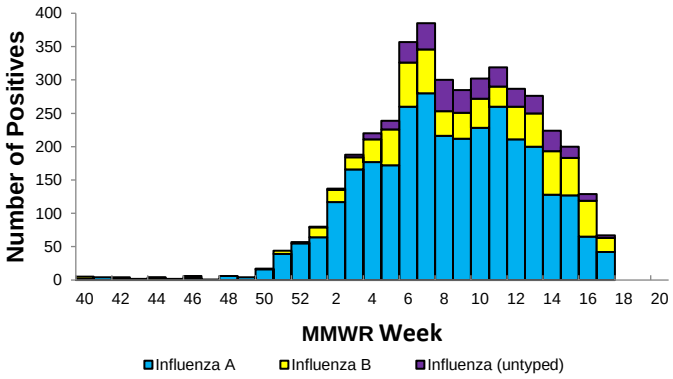
Positive PCR Samples for Influenza, HETL – Maine, 2018-19



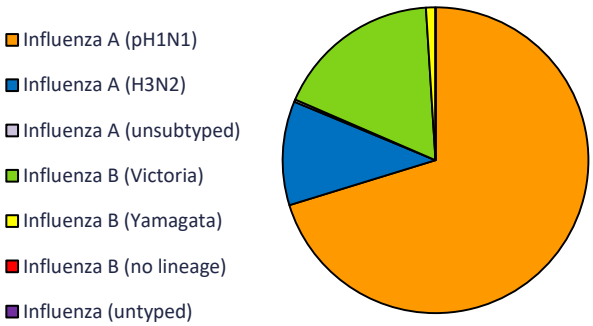
Positive Samples for Influenza, Maine Reference Labs – Maine, 2018-19



Positive Influenza Rapid Antigen Tests – Maine, 2018-19



Cumulative Influenza Positive Tests by Strain, HETL – Maine, 2018-19



Antiviral Resistance – Maine, 2018-19 Influenza Season

- # of Influenza A (pH1N1) samples tested for Tamiflu resistance at HETL: 188
  - # with resistance: 0
- # of Influenza A (H3) samples tested for Tamiflu resistance at HETL: 13
  - # with resistance: 0

Pediatric Influenza Deaths

- One pediatric influenza-associated death reported during the 2018-19 influenza season in an unvaccinated child. This was confirmed as influenza A (H3N2).

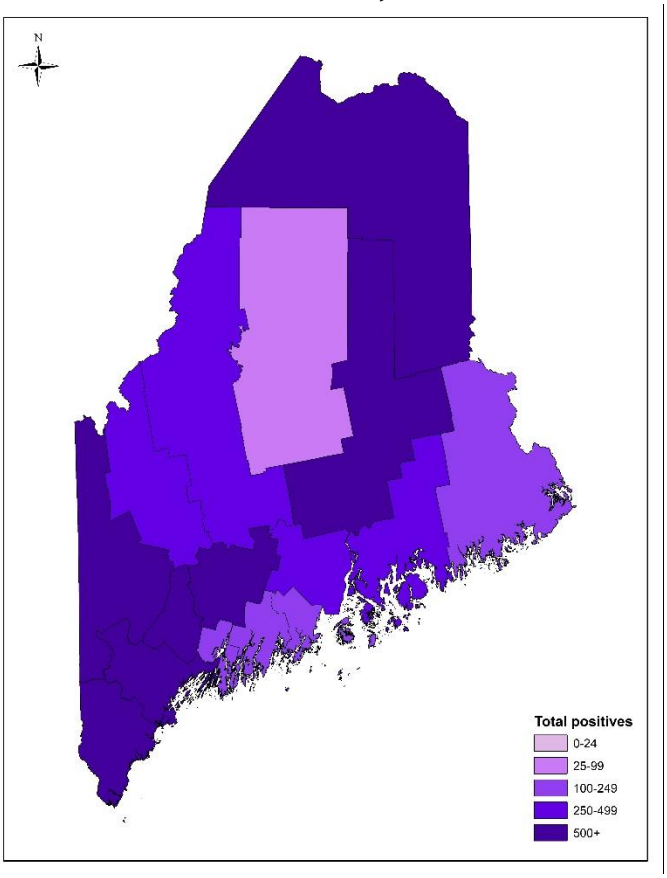
All data is preliminary and subject to change

Geographic Distribution of Lab Tests, Maine 2018-19*

County	Positive labs		Hospitalizations	
	Tested this week	Total	New this week	Total
Androscoggin	9	1368	0	95
Aroostook	23	710	1	32
Cumberland	18	1392	3	221
Franklin	2	312	2	61
Hancock	2	364	0	42
Kennebec	5	560	2	105
Knox	8	244	1	28
Lincoln	0	233	0	35
Oxford	14	556	1	71
Penobscot	33	1459	2	135
Piscataquis	4	61	0	9
Sagadahoc	4	181	0	47
Somerset	4	456	2	51
Waldo	5	271	0	16
Washington	0	152	0	18
York	17	1800	0	112
Total	**148**	**10119**	**14**	**1078**

*Only reported PCR, culture, and rapid antigen tests are included in the chart and map.

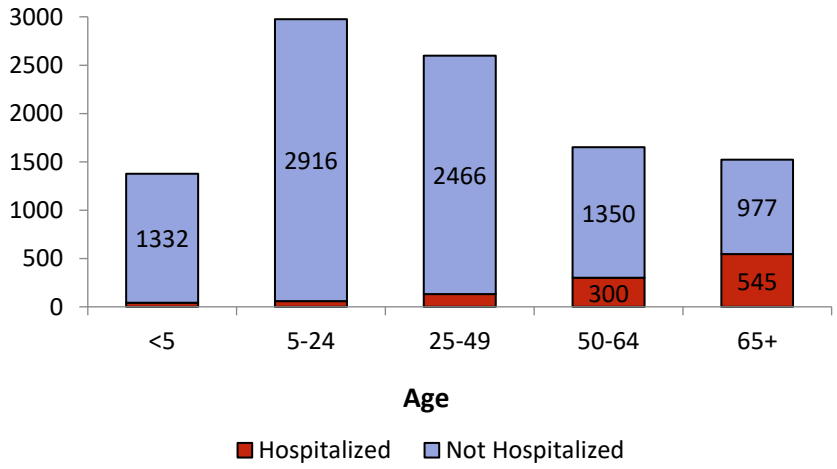
Positive Influenza Tests, Maine 2018-19



Age Information – Maine, 2018-19 Influenza Season

	Cases	Hospitalizations	Deaths
Minimum Age	2 days	2 days	Under 18 years
Mean Age	34 years	61 years	74 years
Maximum Age	102 years	102 years	98 years

Positive Influenza Tests by Age – Maine, 2018-19



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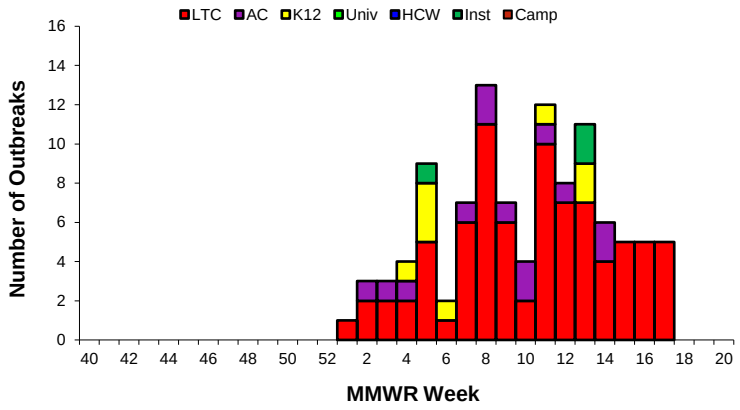
Antigenic Characterization (Vaccine Strain Match)

- Federal CDC has antigenically or genetically characterized 2015 influenza viruses from September 30– April 20, 2019.
    - 97% of influenza A/H1N1 samples match the vaccine strain
    - 45.1% of influenza A/H3N2 samples match the vaccine strain
    - 75.9% of influenza B/Victoria samples match the vaccine strain
    - 100% of influenza B/Yamagata samples match the vaccine strain
- Antigenic characterization shows if the circulating strains are the same strains that were used to make the vaccine. This does not tell you how effective the vaccine is at creating an immune response. For current vaccine effectiveness rates visit https://www.cdc.gov/mmwr/volumes/68/wr/mm6806a2.htm.

Influenza-Like Illness Outbreaks – Maine, 2018-19 Influenza Season

- # new outbreaks: 5
- Total outbreaks 2018-19 season: 105

Influenza-Like Illness Outbreaks by Facility Type – Maine, 2018-19



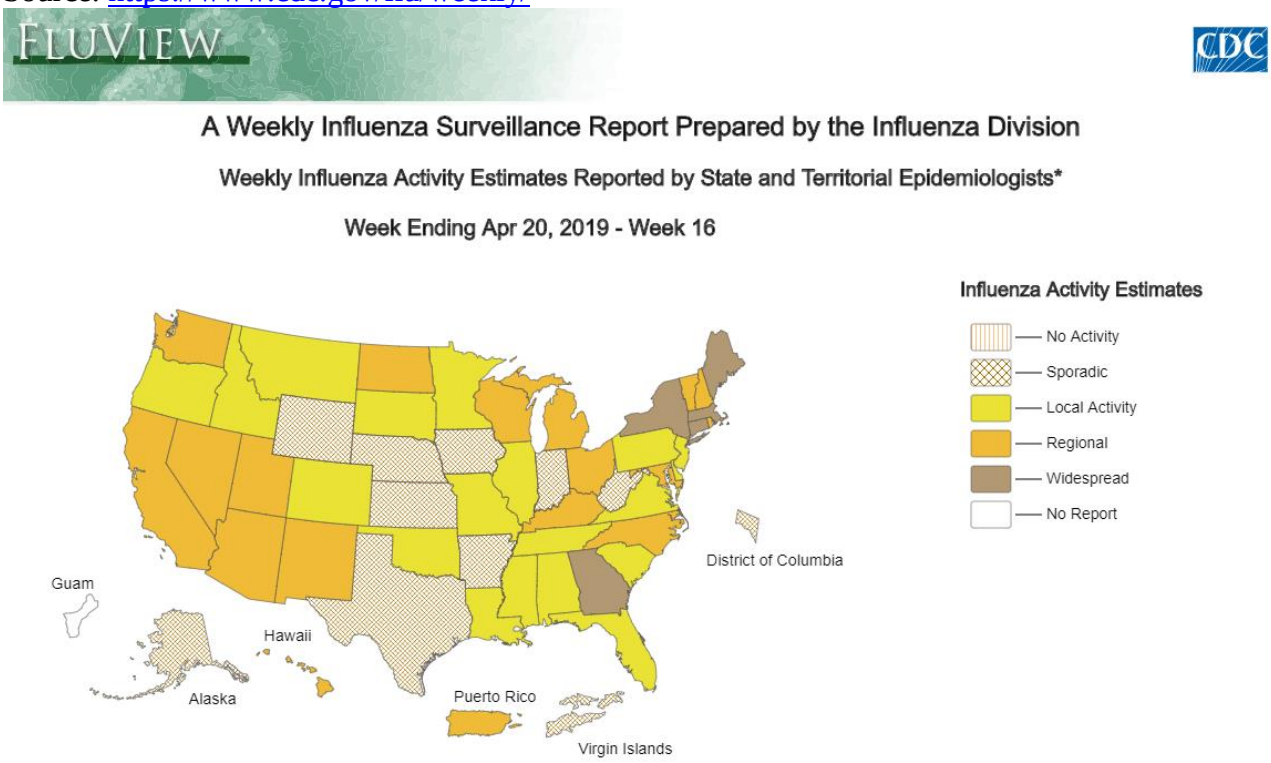
Outbreak Facility Type Key:

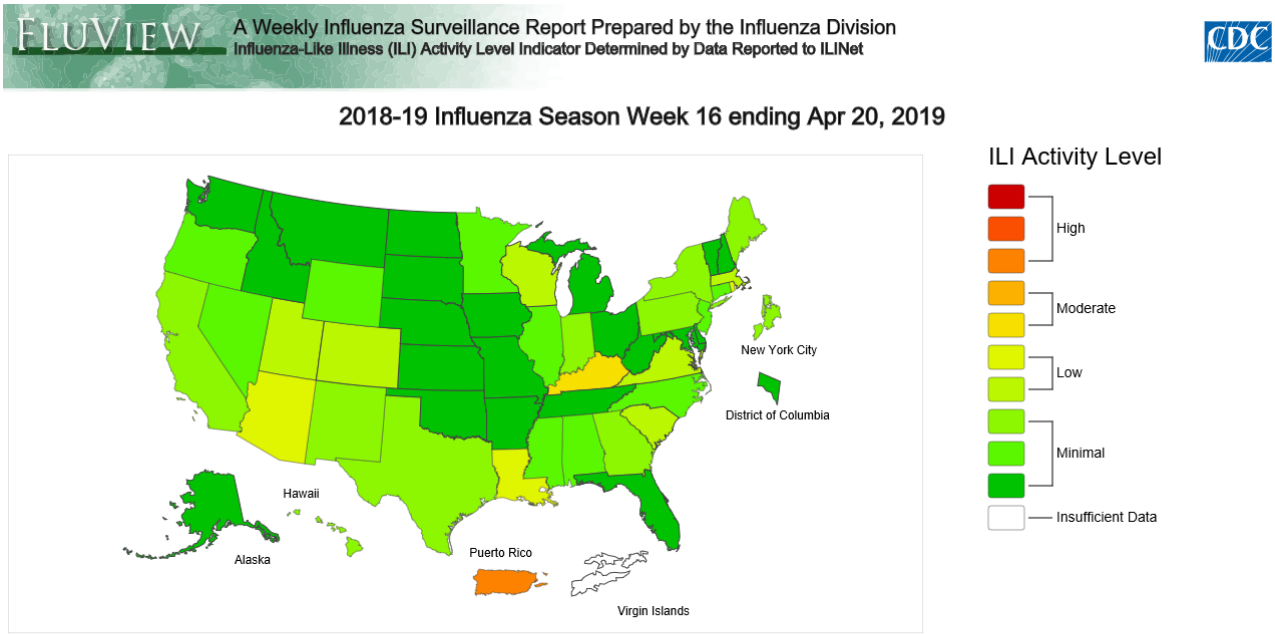
LTC - Long Term Care Facility
AC - Acute Care Facility (nosocomial)
K12 - School (K-12) or daycare
Univ - School (residential) or University
HCW - Health care workers
Inst - Other institutions (workplaces, correctional facilities etc)
Camp - Camp

Influenza-Like Illness Outbreak by Facility Type and County – Maine, 2018-19

County	LTC	AC	K12	Univ	HCW	Inst	Camp	Total
Androscoggin	8	3	0	0	0	0	0	11
Aroostook	12	0	0	0	0	0	0	12
Cumberland	22	2	1	0	0	2	0	27
Franklin	3	0	0	0	0	0	0	3
Hancock	1	1	0	0	0	0	0	2
Kennebec	6	4	0	0	0	0	0	10
Knox	4	0	0	0	0	1	0	5
Lincoln	0	0	0	0	0	0	0	0
Oxford	3	0	0	0	0	0	0	3
Penobscot	8	2	1	0	0	0	0	11
Piscataquis	1	0	0	0	0	0	0	1
Sagadahoc	0	0	1	0	0	0	0	1
Somerset	4	0	0	0	0	0	0	4
Waldo	0	0	1	0	0	0	0	1
Washington	0	0	0	0	0	0	0	0
York	9	1	4	0	0	0	0	14
Total	81	13	8	0	0	3	0	105

National Influenza Surveillance Data
Source: https://www.cdc.gov/flu/weekly/





*This map uses the proportion of outpatient visits to healthcare providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.
*Data collected in ILINet may disproportionately represent certain populations within a state, and therefore may not accurately depict the full picture of influenza activity for the whole state.
*Data displayed in this map are based on data collected in ILINet, whereas the State and Territorial flu activity map are based on reports from state and territorial epidemiologists. The data presented in this map is preliminary and may change as more data is received.
*Differences in the data presented by CDC and state health departments likely represent differing levels of data completeness with data presented by the state likely being the more complete.
*For the data download you can use Activity Level for the number and Activity Level Label for the text description.

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